Engineering Interpretations

Water Management

Interpretations of soils for water management are given as limitations for pond reservoir areas; embankments, dikes, and levees; excavated pond (aquifer-fed); and as restrictive features that affect drainage, irrigation, terraces and diversions, and grassed waterways.

POND RESERVOIR AREA is the area that holds water behind a dam or embankment. Soils best suited to this use have a low seepage potential, which is determined by the permeability and depth to fractured or permeable bedrock, or other permeable material.

EMBANKMENTS, DIKES, AND LEVEES are raised structures of soil material constructed to impound water or protect land against overflow. They generally are less than 20 feet high and are constructed of "homogeneous" soil material (without a core zone) and compacted to medium density.

EXCAVATED PONDS (AQUIFER-FED) are bodies of water created by excavating a pit or dugout into a ground-water aquifer. Excluded are ponds which are fed by surface runoff or that have embankments that impound water 3 feet or more above the original surface.

DRAINAGE is the process of removing excess surface and subsurface water from agricultural land. Soil features are listed that affect grading, excavation, and stability of trench sides or ditch banks. Features are also listed which might affect productivity after drainage is installed. The availability of drainage outlets must also be considered.

IRRIGATION is the controlled application of water to supplement rainfall for supporting plant growth. Soil features are listed that affect design, layout, construction, management, or performance of an irrigation system.

TERRACES AND DIVERSIONS are embankments or a combination of an embankment and a channel constructed across a slope to control erosion by diverting or storing surface runoff instead of permitting it to flow uninterrupted down the slope. Soil features are listed that affect the construction of terraces and diversions and that may cause problems after construction.

GRASSED WATERWAYS are natural or constructed channels that generally are broad and shallow and are covered with erosion-resistant grasses. They are used to conduct surface water to outlets at a nonerosive velocity. Soil features are listed that affect the construction and maintenance of the waterway, and also that affect the growth of grass after construction.

This subsection includes:
- **(a) Water Management**

Water Management

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40000: Barden---------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited) ~shallow to bedrock (very limited) ~percs slowly (moderately limited)	1.00 1.00 0.39	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~ponded (wetness) (very limited) ~depth to bedrock (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~bedrock <20 in. (very limited) ~erodes easily (moderately limited) ~wetness (slightly limited)	1.00 0.60 0.28
40001: Bolivar--------	Limited ~depth to bedrock (limited) ~seepage (moderately limited) ~slope (moderately limited)	0.74 0.50 0.30	Very limited ~ponded (wetness) (very limited) ~slope (limited) ~depth to bedrock (slightly limited)	1.00 0.98 0.06	Very limited ~ponded (wetness) (very limited) ~slope (limited) ~depth to bedrock (slightly limited)	1.00 0.98 0.06	Very limited ~depth to bedrock (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~wetness (very limited) ~depth to bedrock (limited) ~slope (moderately limited)	1.00 0.74 0.30
40004: Barden---------	Very limited ~bedrock <20 in. (very limited) ~slope (slightly limited)	1.00 0.10	Very limited ~ponded (wetness) (very limited) ~shallow to bedrock (very limited) ~slope (moderately limited)	1.00 1.00 0.40	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~ponded (wetness) (very limited) ~depth to bedrock (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60	Very limited ~bedrock <20 in. (very limited) ~erodes easily (moderately limited) ~wetness (slightly limited)	1.00 0.60 0.28
40005: Sylvania-------	Limited ~slope (limited) ~depth to bedrock (limited)	0.80 0.64	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~large surface stones (limited)	1.00 1.00 0.70	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~large surface stones (limited)	1.00 1.00 0.70	Very limited ~ponded (wetness) (very limited) ~slope (limited) ~large surface stones (limited)	1.00 0.80 0.70	Limited ~slope (limited) ~large surface stones (limited) ~depth to bedrock (limited)	0.80 0.70 0.64

Cedar County, Missouri: Detailed Soil Map Legend

Water Management

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Map symbol and soil name	Pond reservoir areas — Rating class and limiting features	Value	Drainage — Rating class and limiting features	Value	Irrigation — Rating class and limiting features	Value	Terraces and diversions — Rating class and limiting features	Value	Grassed waterways — Rating class and limiting features	Value
40006:										
Barco----------	Limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock (limited)	0.84	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~wetness (very limited)	1.00
	~seepage (moderately limited)	0.50	~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.84
	~slope (slightly limited)	0.10	~depth to bedrock (slightly limited)	0.27	~depth to bedrock (slightly limited)	0.27	~wetness (very limited)	1.00	~slope (slightly limited)	0.10
Sylvania-------	Moderately limited		Very limited		Very limited		Very limited		Moderately limited	
	~depth to bedrock (moderately limited)	0.58	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (moderately limited)	0.58
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~depth to bedrock (moderately limited)	0.48	~slope (slightly limited)	0.10
			~percs slowly (slightly limited)	0.17	~percs slowly (slightly limited)	0.17	~slope (slightly limited)	0.10		
40007:										
Eldorado-------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
	~slope (limited)	0.70	~large stones (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
40008:										
Parsons--------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~percs slowly (very limited)	1.00	~percs slowly (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~depth to bedrock (very limited)	1.00	~wetness (limited)	0.99
			~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (limited)	0.99	~erodes easily (moderately limited)	0.60

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   table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40009: Sylvania-------	Limited		Very limited		Very limited		Very limited		Limited	
	~depth to bedrock (limited)	0.68	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.68
	~slope (moderately limited)	0.45	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.81	~slope (moderately limited)	0.45
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~slope (moderately limited)	0.45		
40010: Collinsville---	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~depth to bedrock (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~slope (limited)	0.70	~slope (very limited)	1.00	~droughty (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
	~seepage (moderately limited)	0.32	~ponded (wetness) (very limited)	1.00	~slope (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
44001: Quarles--------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~excess sodium (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~shallow to bedrock (very limited)	1.00	~excess sodium (very limited)	1.00	~depth to bedrock (very limited)	1.00	~excess sodium (very limited)	1.00

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
46000: Humansville----	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
			~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~flooding (limited)	0.90	~flooding (limited)	0.90	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
66000: Moniteau-------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~wetness (very limited)	1.00
			~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~flooding (moderately limited)	0.60	~flooding (moderately limited)	0.60	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
66001: Dameron--------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~flooding (limited)	0.90	~flooding (limited)	0.90	~depth to bedrock (very limited)	1.00		
70000: Bona----------	Moderately limited ~seepage (moderately limited)	0.50	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~wetness (very limited)	1.00
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~slope (limited)	0.98	~wetness (very limited)	1.00	~slope (moderately limited)	0.30
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~slope (moderately limited)	0.30		

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70001: Bona-----------	Limited		Very limited		Very limited		Very limited		Very limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00
			~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~slope (limited)	0.99
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~slope (limited)	0.99		
70002: Alsup----------	Limited		Very limited		Very limited		Very limited		Limited	
	~depth to bedrock (limited)	0.65	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.65
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~slope (limited)	0.98	~depth to bedrock (limited)	0.66	~erodes easily (moderately limited)	0.60
			~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~slope (moderately limited)	0.30
70003: Alsup----------	Limited		Very limited		Very limited		Very limited		Limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99
	~depth to bedrock (moderately limited)	0.40	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99	~depth to bedrock (moderately limited)	0.40
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~depth to bedrock (slightly limited)	0.25		
70004: Alsup----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~depth to bedrock (limited)	0.70	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.70
			~large surface stones (moderately limited)	0.60	~large surface stones (moderately limited)	0.60	~depth to bedrock (limited)	0.90	~large surface stones (moderately limited)	0.60

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   table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70006: Creldon--------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~rooting depth (limited)	0.80
			~percs slowly (slightly limited)	0.13	~percs slowly (slightly limited)	0.13	~wetness (moderately limited)	0.36	~wetness (moderately limited)	0.36
70007: Cliquot--------	Limited		Very limited		Very limited		Very limited		Limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99
	~seepage (moderately limited)	0.50	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99	~large stones (limited)	0.88
	~depth to bedrock (moderately limited)	0.42	~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~large stones (limited)	0.88	~depth to bedrock (moderately limited)	0.42
70008: Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~slope (limited)	0.98	~depth to bedrock (very limited)	1.00	~large stones (moderately limited)	0.54
70009: Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
	~slope (limited)	0.99	~large stones (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00

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   table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70010:										
Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~seepage (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
70011:										
Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~seepage (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
Moko-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large stones (very limited)	1.00
	~slope (limited)	0.70	~slope (very limited)	1.00	~droughty (very limited)	1.00	~large stones (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~ponded (wetness) (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
70012:										
Hoberg---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~rooting depth (limited)	0.80
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~wetness (moderately limited)	0.44	~wetness (moderately limited)	0.44

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	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70014:										
Moko-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00
	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~droughty (very limited)	1.00	~depth to bedrock (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
			~large stones (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~slope (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70040:										
Cliquot--------	Limited		Very limited		Very limited		Very limited		Limited	
	~depth to bedrock (limited)	0.70	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.70
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~slope (limited)	0.98	~depth to bedrock (limited)	0.90	~slope (moderately limited)	0.30
			~percs slowly (moderately limited)	0.39	~percs slowly (moderately limited)	0.39	~slope (moderately limited)	0.30	~large stones (slightly limited)	0.01
Bolivar--------	Limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock (limited)	0.91	~large stones (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large stones (very limited)	1.00
	~seepage (moderately limited)	0.50	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.98	~large stones (very limited)	1.00	~wetness (very limited)	1.00
	~slope (moderately limited)	0.30	~slope (limited)	0.98	~depth to bedrock (moderately limited)	0.53	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.91
70041:										
Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~seepage (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~large stones (very limited)	1.00	~large stones (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~large stones (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~slope (limited)	0.99	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00

Water Management

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   columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this
   table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70042:										
Goss-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
70043:										
Sonsac---------	Limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock (limited)	0.84	~slope (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~large stones (very limited)	1.00
	~slope (limited)	0.70	~large stones (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~large stones (very limited)	1.00	~wetness (very limited)	1.00
	~seepage (moderately limited)	0.50	~ponded (wetness) (very limited)	1.00	~large stones (limited)	0.96	~ponded (wetness) (very limited)	1.00	~depth to bedrock (limited)	0.84
Moko-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~depth to bedrock (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~slope (limited)	0.70	~slope (very limited)	1.00	~droughty (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
			~ponded (wetness) (very limited)	1.00	~slope (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
70044:										
Sonsac---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00	~slope (very limited)	1.00
	~seepage (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~wetness (very limited)	1.00
	~depth to bedrock (limited)	0.75	~large stones (limited	0.75	~depth to bedrock (slightly limited)	0.09	~ponded (wetness) (very limited)	1.00	~large stones (limited)	0.95

Water Management

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    table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70044: (cont)										
Moko-----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~slope (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~slope (very limited)	1.00	~depth to bedrock (very limited)	1.00	~slope (very limited)	1.00
			~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~droughty (very limited)	1.00
70047:										
Wanda----------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~erodes easily (moderately limited)	0.60	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
70048:										
Alsup----------	Limited		Very limited		Very limited		Very limited		Limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99
	~depth to bedrock (moderately limited)	0.55	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99	~large surface stones (limited)	0.70
	~seepage (moderately limited)	0.50	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~erodes easily (moderately limited)	0.60
70052:										
Arnica---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~wetness (slightly limited)	0.13
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~wetness (slightly limited)	0.13	~slope (slightly limited)	0.10

Water Management

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70053: Courtois-------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~slope (moderately limited)	0.40	~depth to bedrock (very limited)	1.00	~large stones (limited)	0.96
70054: Cliquot--------	Limited		Very limited		Very limited		Very limited		Limited	
	~slope (limited)	0.99	~slope (very limited)	1.00	~slope (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99
	~depth to bedrock (moderately limited)	0.42	~ponded (wetness) (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~slope (limited)	0.99	~large surface stones (limited)	0.70
			~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~large surface stones (limited)	0.70	~depth to bedrock (moderately limited)	0.42
71254: Cotter---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
					~erodes easily (moderately limited)	0.60	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
71750: Cleora---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~seepage (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~flooding (limited)	0.90	~flooding (limited)	0.90	~depth to bedrock (very limited)	1.00		

Cedar County, Missouri: Detailed Soil Map Legend

Water Management

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Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value

73000:
  Pomme----------
	Very limited
	~bedrock <20 in.
	  (very limited)
	~seepage
	  (moderately limited)
	~slope
	  (moderately limited)
		
		1.00
		
		0.50
		
		0.30
			Very limited
			~ponded (wetness)
			  (very limited)
			~shallow to bedrock
			  (very limited)
			~slope
			  (limited)
				
				1.00
				
				1.00
				
				0.98
					Very limited
					~shallow to bedrock
					  (very limited)
					~ponded (wetness)
					  (very limited)
					~slope
					  (limited)
						
						1.00
						
						1.00
						
						0.98
							Very limited
							~ponded (wetness)
							  (very limited)
							~wetness
							  (very limited)
							~depth to bedrock
							  (very limited)
								
								1.00
								
								1.00
								
								1.00
									Very limited
									~bedrock <20 in.
									  (very limited)
									~wetness
									  (very limited)
									~slope
									  (moderately limited)
										
										1.00
										
										1.00
										
										0.30

73003:
  Ocie-----------
	Very limited
	~slope
	  (very limited)
	~depth to bedrock
	  (limited)
		
		1.00
		
		0.65
			Very limited
			~slope
			  (very limited)
			~ponded (wetness)
			  (very limited)
			~percs slowly
			  (moderately limited)
				
				1.00
				
				1.00
				
				0.39
					Very limited
					~slope
					  (very limited)
					~ponded (wetness)
					  (very limited)
					~percs slowly
					  (moderately limited)
						
						1.00
						
						1.00
						
						0.39
							Very limited
							~slope
							  (very limited)
							~ponded (wetness)
							  (very limited)
							~depth to bedrock
							  (limited)
								
								1.00
								
								1.00
								
								0.66
									Very limited
									~slope
									  (very limited)
									~depth to bedrock
									  (limited)
									~wetness
									  (slightly limited)
										
										1.00
										
										0.65
										
										0.28

Gatewood-------	Very limited
	~slope
	  (very limited)
	~depth to bedrock
	  (limited)
		
		1.00
		
		0.89
			Very limited
			~slope
			  (very limited)
			~ponded (wetness)
			  (very limited)
			~depth to bedrock
			  (moderately limited)
				
				1.00
				
				1.00
				
				0.46
					Very limited
					~slope
					  (very limited)
					~ponded (wetness)
					  (very limited)
					~depth to bedrock
					  (moderately limited)
						
						1.00
						
						1.00
						
						0.46
							Very limited
							~slope
							  (very limited)
							~depth to bedrock
							  (very limited)
							~ponded (wetness)
							  (very limited)
								
								1.00
								
								1.00
								
								1.00
									Very limited
									~slope
									  (very limited)
									~depth to bedrock
									  (limited)
									~wetness
									  (moderately limited)
										
										1.00
										
										0.89
										
										0.50

73005:
  Ocie-----------
	Limited
	~slope
	  (limited)
	~depth to bedrock
	  (moderately limited)
		
		0.70
		
		0.50
			Very limited
			~slope
			  (very limited)
			~large stones
			  (very limited)
			~ponded (wetness)
			  (very limited)
				
				1.00
				
				1.00
				
				1.00
					Very limited
					~slope
					  (very limited)
					~ponded (wetness)
					  (very limited)
					~percs slowly
					  (moderately limited)
						
						1.00
						
						1.00
						
						0.39
							Very limited
							~ponded (wetness)
							  (very limited)
							~large stones
							  (very limited)
							~slope
							  (limited)
								
								1.00
								
								1.00
								
								0.70
									Very limited
									~large stones
									  (very limited)
									~slope
									  (limited)
									~depth to bedrock
									  (moderately limited)
										
										1.00
										
										0.70
										
										0.50

Water Management

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   table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
73007: Plato----------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
			~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~rooting depth (limited)	0.80
			~percs slowly (slightly limited)	0.13	~erodes easily (moderately limited)	0.60	~wetness (limited)	0.68	~wetness (limited)	0.68
73008: Viraton--------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~rooting depth (limited)	0.80
	~slope (slightly limited)	0.10	~slope (moderately limited)	0.40	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60
73059: Pomme----------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
					~erodes easily (moderately limited)	0.60	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
73075: Hobson---------	Very limited ~bedrock <20 in. (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~shallow to bedrock (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00	Very limited ~bedrock <20 in. (very limited)	1.00
			~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~rooting depth (limited)	0.80
					~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60	~erodes easily (moderately limited)	0.60

Water Management

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table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
74625:										
Hartville------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~slope (moderately limited)	0.30	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
			~slope (limited)	0.98	~slope (limited)	0.98	~erodes easily (moderately limited)	0.60	~wetness (moderately limited)	0.55
74641:										
Secesh---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~flooding (moderately limited)	0.60	~flooding (moderately limited)	0.60	~depth to bedrock (very limited)	1.00		
75375:										
Horsecreek-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~bedrock <20 in. (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~seepage (moderately limited)	0.50	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~flooding (moderately limited)	0.60	~flooding (moderately limited)	0.60	~depth to bedrock (very limited)	1.00	~erodes easily (moderately limited)	0.60
75377:										
Racket---------	Very limited		Very limited		Very limited		Very limited		Very limited	
	~seepage (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~bedrock <20 in. (very limited)	1.00
	~bedrock <20 in. (very limited)	1.00	~shallow to bedrock (very limited)	1.00	~ponded (wetness) (very limited)	1.00	~wetness (very limited)	1.00	~wetness (very limited)	1.00
			~flooding (limited)	0.90	~flooding (limited)	0.90	~depth to bedrock (very limited)	1.00		

Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pond reservoir areas		Drainage		Irrigation		Terraces and diversions		Grassed waterways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
75378: Sturkie--------	Very limited ~bedrock <20 in. (very limited) ~seepage (moderately limited)	1.00 0.50	Very limited ~ponded (wetness) (very limited) ~shallow to bedrock (very limited) ~flooding (limited)	1.00 1.00 0.90	Very limited ~shallow to bedrock (very limited) ~ponded (wetness) (very limited) ~flooding (limited)	1.00 1.00 0.90	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~depth to bedrock (very limited)	1.00 1.00 1.00	Very limited ~bedrock <20 in. (very limited) ~wetness (very limited) ~erodes easily (moderately limited)	1.00 1.00 0.60
99000: Pits, quarries-	Not rated		Not rated		Not rated		Not rated		Not rated	
99001: Water----------	Not rated		Not rated		Not rated		Not rated		Not rated	
99004: Kanima---------	Very limited ~slope (very limited) ~bedrock <20 in. (very limited) ~seepage (moderately limited)	1.00 1.00 0.50	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~shallow to bedrock (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~shallow to bedrock (very limited) ~ponded (wetness) (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~ponded (wetness) (very limited) ~wetness (very limited)	1.00 1.00 1.00	Very limited ~slope (very limited) ~bedrock <20 in. (very limited) ~wetness (very limited)	1.00 1.00 1.00
99007: Dam------------	Not rated		Not rated		Not rated		Not rated		Not rated	